Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Tyler Oil Company Well Name/Number: Annette Freeland 13-26 Location: SW SW Section 26 T35N R3E County: Toole MT; Field (or Wildcat) Wildcat **Air Quality** (possible concerns) Long drilling time: No, 4 to 5 days drilling time. Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig to drill to 2700' TD, Rierdon Formation. Possible H2S gas production: No possible H2S. In/near Class I air quality area: No Class I air quality area nearby. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AQB review) __ Gas plants/pipelines available for sour gas __ Special equipment/procedures requirements _ Other: Comments: No special concerns – using small rig to drill to 2700'TD. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater, freshwater mud and air/mist drilling fluid system. High water table: No high water table anticipated. Surface drainage leads to live water: No, closest drainage is Wescott Coulee, an ephemeral drainages and an unnamed ephemeral drainages. Wescott Coulee is about 5/16 of a mile west and the unnamed drainage is about 1/8 of a mile to the southeast of this unnamed ephemeral drainage Water well contamination: No. closest water wells are about 5/8 of a mile to the southeast and about 34 of a mile to the southeast from this location. The depth of these stock and domestic water wells varies from 116' to 200' in depth. Surface hole will be drilled with freshwater and freshwater mud, rule 36.22.1001. Steel surface casing will be set from 350' and cemented to surface to protect groundwater, rule 36.22.1001. Porous/permeable soils: No, sandy bentonitic soils. Class I stream drainage: None Mitigation: Lined reserve pit X Adequate surface casing ___ Berms/dykes, re-routed drainage __ Closed mud system

Comments: 350' of surface casing cemented to surface adequate to protect freshwater zones, rule 36.22.1001. Also, air and air/mist and/or freshwater and fresh water mud systems to be used to drill mainhole. 5 ½" production casing will be cemented to surface, if production is encountered.

__ Off-site disposal of solids/liquids (in approved facility)

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, stream crossings anticipated.
High erosion potential: No, small cut, up to 4.0' and moderate fill, up to 13.0', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No. 250'X250' location size required.
Damage to improvements: Slight, surface is grazing land.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing county road, Oilmont Road and using
existing ranch access roads. A short access will be built off the existing trail into this
ocation. Drilling muds and solids will be allowed to dry in the pits. Pits will be backfilled
when dry. No special concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: Henry Ranch is about 3/4 of a mile to the
southeast from this location.
Possibility of H2S: No H2S anticipated.
Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.
Mitigation:
X_Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: No concerns. Working BOP (3000 psig Annular and Double Ram
BOP), rule 36.22.1014 and adequate surface casing should mitigate any problems.
Distance should mitigate any noise issues.
WELLEY COLUMN P. C.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No Threatened or endangered Species: Only appoins identified as threatened or
Threatened or endangered Species: Only species identified as threatened or
endangered is the Black-footed Ferret. Candidate species listed is the Sprague's Pipit. NH tracker website lists only one (1) species of concern as the Ferruginous Hawk.
Mitigation:
willigation.

Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Oreate demand for new governmental services Population increase or relocation
Pobulation increase or reforation
Comments: Wildcat well. No concerns.
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I conclude that the approval of the subject Notice of Intent to Drill (does/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/<u>does not</u>) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki
(title:) Chief Field Inspector
Date: June 7, 2013
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Toole County water wells
(subject discussed)
<u>June 7, 2013</u>
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Toole County
(subject discussed)
June 7, 2013
(date)
Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, T35N R3E
(subject discussed)
June 7, 2013
(date)
Montana Cadastral Website
(Name and Agency)
Surface Ownership and surface use Section 26 T35N R3E
(subject discussed)
June 7, 2013
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: